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**CRF Errors Edited by the STIC Systems
Branch**

Serial Number: 09/347,064H

CRF Edit Date: 9/11/2003
Edited by: M

ENTERED

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

✓ Deleted: ✓ ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



1600

RAW SEQUENCE LISTING

DATE: 09/11/2003

PATENT APPLICATION: US/09/347,064H

TIME: 17:43:33

Input Set : N:\Crf4\09092003\I347064H.raw

Output Set: N:\CRF4\09112003\I347064H.raw

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1 <110> APPLICANT: Eck, Jurgen
2      Schmidt, Arno
3      Zinke, Holger
4 <120> TITLE OF INVENTION: Recombinant Fusion Proteins Based on Ribosome-
5      Inactivating Proteins of
6      the Mistletoe Viscum album
7 <130> FILE REFERENCE: 09282-5
C--> 8 <140> CURRENT APPLICATION NUMBER: US/09/347,064H
9 <141> CURRENT FILING DATE: 1999-07-02
10 <150> PRIOR APPLICATION NUMBER: PCT/EP98/00009
11 <151> PRIOR FILING DATE: 1998-01-02
12 <150> PRIOR APPLICATION NUMBER: EP 97 10 0012.0
13 <151> PRIOR FILING DATE: 1997-01-02
14 <160> NUMBER OF SEQ ID NOS: 49
15 <170> SOFTWARE: PatentIn version 3.2
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 762
19 <212> TYPE: DNA
20 <213> ORGANISM: Viscum album
21 <400> SEQUENCE: 1
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23      cggttcatca cgcttctccg agattatgtc tcaagcggaa gcttttccaa tgagatacca      120
24      ctcttgctgc agtctacgat ccccgctctcc gatgcgcaaa gatttgtctt ggtggagctc      180
25      accaaccagg ggggagactc gatcacggcc gccatcgacg ttaccaatct gtacgtcgtg      240
26      gcttaccaaag caggcgacca atcctacttt ttgcgcgacg caccacgcgg cgcggaaacg      300
27      catctcttca ccggcaccac ccgatcctct ctccattca acggaagcta ccctgatctg      360
28      gagcgatacg ccggacatag ggaccagatc cctctcggtg tagaccaact cattcaatcc      420
29      gtcacggcgc ttcgttttcc gggcggcagc acgcgtaccc aagctcgttc gattttaatc      480
30      ctcattcaga tgatctccga ggccgccaga ttcaatccca tcttatggag ggctcgccaa      540
31      tacattaaca gtggggcgtc atttctgccg gacgtgtaca tgctggagct ggagacgagt      600
32      tggggccaac aatccacgca agtccagcat tcaaccgatg gcgtttttaa taaccaatt      660
33      cggttggcta tccccccgg taacttcgtg acgttgacca atgttcgcga cgtgatcgcc      720
34      agcttggcga tcatgttgtt tgtatgcgga gagcgcccga gt - - - - -      762
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 252
38 <212> TYPE: PRT
39 <213> ORGANISM: Viscum album
40 <400> SEQUENCE: 2
41      Met Tyr Glu Arg Ile Arg Leu Arg Val Thr His Gln Thr Thr Gly Glu
42      1          5          10          15
43      Glu Tyr Phe Arg Phe Ile Thr Leu Leu Arg Asp Tyr Val Ser Ser Gly
44      20          25          30
45      Ser Phe Ser Asn Glu Ile Pro Leu Leu Arg Gln Ser Thr Ile Pro Val

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Input Set : N:\Crf4\09092003\I347064H.raw

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46          35          40          45
47 Ser Asp Ala Gln Arg Phe Val Leu Val Glu Leu Thr Asn Gln Gly Gly
48          50          55          60
49 Asp Ser Ile Thr Ala Ala Ile Asp Val Thr Asn Leu Tyr Val Val Ala
50          65          70          75          80
51 Tyr Gln Ala Gly Asp Gln Ser Tyr Phe Leu Arg Asp Ala Pro Arg Gly
52          85          90          95
53 Ala Glu Thr His Leu Phe Thr Gly Thr Thr Arg Ser Ser Leu Pro Phe
54          100          105          110
55 Asn Gly Ser Tyr Pro Asp Leu Glu Arg Tyr Ala Gly His Arg Asp Gln
56          115          120          125
57 Ile Pro Leu Gly Ile Asp Gln Leu Ile Gln Ser Val Thr Ala Leu Arg
58          130          135          140
59 Phe Pro Gly Gly Ser Thr Arg Thr Gln Ala Arg Ser Ile Leu Ile Leu
60          145          150          155          160
61 Ile Gln Met Ile Ser Glu Ala Ala Arg Phe Asn Pro Ile Leu Trp Arg
62          165          170          175
63 Ala Arg Gln Tyr Ile Asn Ser Gly Ala Ser Phe Leu Pro Asp Val Tyr
64          180          185          190
65 Met Leu Glu Leu Glu Thr Ser Trp Gly Gln Gln Ser Thr Gln Val Gln
66          195          200          205
67 His Ser Thr Asp Gly Val Phe Asn Asn Pro Ile Arg Leu Ala Ile Pro
68          210          215          220
69 Pro Gly Asn Phe Val Thr Leu Thr Asn Val Arg Asp Val Ile Ala Ser
70          225          230          235          240
71 Leu Ala Ile Met Leu Phe Val Cys Gly Glu Arg Pro
72          245          250
74 <210> SEQ ID NO: 3
75 <211> LENGTH: 828
76 <212> TYPE: DNA
77 <213> ORGANISM: Viscum album
78 <400> SEQUENCE: 3
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80 ggctcgaaatg gcatgtgcgt ggacgtccga gatgacgatt tccgcgatgg aaatcagata 120
81 cagttgtggc cctccaagtc caacaatgat ccgaatcagt tgtggacgat caaaagggat 180
82 ggaaccattc gatccaatgg cagctgcttg accacgtatg gctatactgc tggcgtctat 240
83 gtgatgatct tcgactgtaa tactgctgtg cgggaggcca ctctttggca gatatggggc 300
84 aatgggacca tcatcaatcc aagatccaat ctggttttg cagcatcatc tggaatcaaa 360
85 ggcactacgc ttacggtgca aacactggat tacacgttgg gacagggtg gcttgccggt 420
86 aatgataccg cccacgcga ggtgaccata tatgggttca gggaccttg catggaatca 480
87 aatggaggga gtgtgtgggt ggagacgtgc gtgagtagcc aaaagaacca aagatgggct 540
88 ttgtacgggg atggttctat acgccccaaa caaaaccaag accaatgcct cacctgtggg 600
89 agagactccg tttcaacagt aatcaatata gttagctgca gcgctggatc gtctgggcag 660
90 cgatgggtgt ttaccaatga aggggccatt ttgaatttaa agaatgggtt ggccatggat 720
91 gtggcgcaag caaatccaaa gctccgccga ataatactct atcctgccac aggaaaacca 780
92 aatcaaatgt ggcttcccgt gccagggtga tatcactagt aaggatcc 828
94 <210> SEQ ID NO: 4
95 <211> LENGTH: 267
96 <212> TYPE: PRT

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Output Set: N:\CRF4\09112003\I347064H.raw

97 <213> ORGANISM: Viscum album

98 <400> SEQUENCE: 4

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99      Asp Asp Val Thr Cys Ser Ala Ser Glu Pro Thr Val Arg Ile Val Gly
100      1          5          10          15
101      Arg Asn Gly Met Cys Val Asp Val Arg Asp Asp Asp Phe Arg Asp Gly
102      20          25          30
103      Asn Gln Ile Gln Leu Trp Pro Ser Lys Ser Asn Asn Asp Pro Asn Gln
104      35          40          45
105      Leu Trp Thr Ile Lys Arg Asp Gly Thr Ile Arg Ser Asn Gly Ser Cys
106      50          55          60
107      Leu Thr Thr Tyr Gly Tyr Thr Ala Gly Val Tyr Val Met Ile Phe Asp
108      65          70          75          80
109      Cys Asn Thr Ala Val Arg Glu Ala Thr Leu Trp Gln Ile Trp Gly Asn
110      85          90          95
111      Gly Thr Ile Ile Asn Pro Arg Ser Asn Leu Val Leu Ala Ala Ser Ser
112      100         105         110
113      Gly Ile Lys Gly Thr Thr Leu Thr Val Gln Thr Leu Asp Tyr Thr Leu
114      115         120         125
115      Gly Gln Gly Trp Leu Ala Gly Asn Asp Thr Ala Pro Arg Glu Val Thr
116      130         135         140
117      Ile Tyr Gly Phe Arg Asp Leu Cys Met Glu Ser Asn Gly Gly Ser Val
118      145         150         155         160
119      Trp Val Glu Thr Cys Val Ser Ser Gln Lys Asn Gln Arg Trp Ala Leu
120      165         170         175
121      Tyr Gly Asp Gly Ser Ile Arg Pro Lys Gln Asn Gln Asp Gln Cys Leu
122      180         185         190
123      Thr Cys Gly Arg Asp Ser Val Ser Thr Val Ile Asn Ile Val Ser Cys
124      195         200         205
125      Ser Ala Gly Ser Ser Gly Gln Arg Trp Val Phe Thr Asn Glu Gly Ala
126      210         215         220
127      Ile Leu Asn Leu Lys Asn Gly Leu Ala Met Asp Val Ala Gln Ala Asn
128      225         230         235         240
129      Pro Lys Leu Arg Arg Ile Ile Ile Tyr Pro Ala Thr Gly Lys Pro Asn
130      245         250         255
131      Gln Met Trp Leu Pro Val Pro Gly Gly Tyr His
132      260         265

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134 <210> SEQ ID NO: 5

135 <211> LENGTH: 72

136 <212> TYPE: DNA

137 <213> ORGANISM: Viscum album

138 <400> SEQUENCE: 5

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139      cgcccgagtt cctctgaggt ggcgtattgg ccgctggtca taaggcctgt gatagccgat      60
140      gatgttacat gt                                                    72

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142 <210> SEQ ID NO: 6

143 <211> LENGTH: 17

144 <212> TYPE: PRT

145 <213> ORGANISM: Viscum album

146 <400> SEQUENCE: 6

147 Ser Ser Ser Glu Val Arg Tyr Trp Pro Leu Val Ile Arg Arg Val Ile

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Input Set : N:\Crf4\09092003\I347064H.raw

Output Set: N:\CRF4\09112003\I347064H.raw

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148      1              5              10              15
149      Ala
151 <210> SEQ ID NO: 7
152 <211> LENGTH: 756
153 <212> TYPE: DNA
154 <213> ORGANISM: Viscum album
155 <400> SEQUENCE: 7
156      tacgaacgta tccgtctgcg tgttacccac cagaccaccg gtgaagaata tttccggttc      60
157      atcacgcttc tccgagatta tgtctcaagc ggaagctttt ccaatgagat accactcttg      120
158      cgtcagtcta cgatccccgt ctccgatgcy caaagatttg tcttggtgga gctcaccaac      180
159      caggggggag actcgatcac ggccgccatc gacgttacca atctgtacgt cgtggcttac      240
160      caagcaggcg accaatccta ctttttgcyg gacgcaccac gcggcgcgga aacgcattctc      300
161      ttcaccggca ccaccgatc ctctctccca ttcaacggaa gctaccctga tctggagcga      360
162      tacgccggac atagggacca gatccctctc ggtatagacc aactcattca atccgtcacg      420
163      gcgcttcggt ttcggggcgg cagcacgcgt acccaagctc gttcgatttt aatcctcatt      480
164      cagatgatct ccgaggccgc cagattcaat cccatcttat ggagggctcg ccaatacatt      540
165      aacagtgggg cgtcatttct gccagacgtg tacatgctgg agctggagac gagttggggc      600
166      caacaatcca cgcaagtcca gcattcaacc gatggcgttt ttaataacct aatcgggttg      660
167      gctatacccc ccggttaact cgtgacgttg accaatgttc gcgacgtgat cgccagcttg      720
168      gcgatcatgt tgtttgtatg cggagagcgg ccatct      756
170 <210> SEQ ID NO: 8
171 <211> LENGTH: 252
172 <212> TYPE: PRT
173 <213> ORGANISM: Viscum album
174 <400> SEQUENCE: 8
175      Tyr Glu Arg Ile Arg Leu Arg Val Thr His Gln Thr Thr Gly Glu Glu
176      1              5              10              15
177      Tyr Phe Arg Phe Ile Thr Leu Leu Arg Asp Tyr Val Ser Ser Gly Ser
178      20              25              30
179      Phe Ser Asn Glu Ile Pro Leu Leu Arg Gln Ser Thr Ile Pro Val Ser
180      35              40              45
181      Asp Ala Gln Arg Phe Val Leu Val Glu Leu Thr Asn Gln Gly Gly Asp
182      50              55              60
183      Ser Ile Thr Ala Ala Ile Asp Val Thr Asn Leu Tyr Val Val Ala Tyr
184      65              70              75              80
185      Gln Ala Gly Asp Gln Ser Tyr Phe Leu Arg Asp Ala Pro Arg Gly Ala
186      85              90              95
187      Glu Thr His Leu Phe Thr Gly Thr Thr Arg Ser Ser Leu Pro Phe Asn
188      100             105             110
189      Gly Ser Tyr Pro Asp Leu Glu Arg Tyr Ala Gly His Arg Asp Gln Ile
190      115             120             125
191      Pro Leu Gly Ile Asp Gln Leu Ile Gln Ser Val Thr Ala Leu Arg Phe
192      130             135             140
193      Pro Gly Gly Ser Thr Arg Thr Gln Ala Arg Ser Ile Leu Ile Leu Ile
194      145             150             155             160
195      Gln Met Ile Ser Glu Ala Ala Arg Phe Asn Pro Ile Leu Trp Arg Ala
196      165             170             175
197      Arg Gln Tyr Ile Asn Ser Gly Ala Ser Phe Leu Pro Asp Val Tyr Met
198      180             185             190

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Input Set : N:\Crf4\09092003\I347064H.raw

Output Set: N:\CRF4\09112003\I347064H.raw

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199      Leu Glu Leu Glu Thr Ser Trp Gly Gln Gln Ser Thr Gln Val Gln His
200              195              200              205
201      Ser Thr Asp Gly Val Phe Asn Asn Pro Ile Arg Leu Ala Ile Pro Pro
202              210              215              220
203      Gly Asn Phe Val Thr Leu Thr Asn Val Arg Asp Val Ile Ala Ser Leu
204      225              230              235              240
205      Ala Ile Met Leu Phe Val Cys Gly Glu Arg Pro Ser
206              245              250
208 <210> SEQ ID NO: 9
209 <211> LENGTH: 789
210 <212> TYPE: DNA
211 <213> ORGANISM: Viscum album
212 <400> SEQUENCE: 9
213      gatgatgtta cctgcagtgc ttcggaacct acggtgcgga ttgtgggtcg aaatggcatg      60
214      tgcgtggacg tccgagatga cgatttccgc gatggaaatc agatacagtt gtggccctcc      120
215      aagtccaaca atgatccgaa tcagttgtgg acgatcaaaa gggatggaac cattcgatcc      180
216      aatggcagct gcttgaccac gtatggctat actgctggcg tctatgtgat gatcttcgac      240
217      tgtaataactg ctgtgcggga ggccactctt tggcagatat ggggcaatgg gaccatcatc      300
218      aatccaagat ccaatctggt tttggcagca tcatctggaa tcaaaggcac tacgcttacg      360
219      gtgcaaacac tggattacac gttgggacag ggctggcttg ccggtaatga taccgccccca      420
220      cgcgaggtga ccatatatgg gttcagggac ctttgcattg aatcaaattg agggagtgtg      480
221      tgggtggaga cgtgcgtgag tagccaaaag aaccaaagat gggctttgta cggggatggt      540
222      tctatacgcc ccaaacaaaa ccaagaccaa tgcctcacct gtgggagaga ctccgtttca      600
223      acagtaatat atatatgttag ctgcagcgct ggatcgtctg ggcagcgatg ggtgtttacc      660
224      aatgaagggg ccattttgaa tttaaagaat gggttggcca tggatgtggc gcaagcaaat      720
225      ccaaagctcc gccgaataat catctatcct gccacaggaa aaccaaataa aatgtggctt      780
226      cccgtgccca
228 <210> SEQ ID NO: 10
229 <211> LENGTH: 263
230 <212> TYPE: PRT
231 <213> ORGANISM: Viscum album
232 <400> SEQUENCE: 10
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235      Arg Asn Gly Met Cys Val Asp Val Arg Asp Asp Asp Phe Arg Asp Gly
236              20              25              30
237      Asn Gln Ile Gln Leu Trp Pro Ser Lys Ser Asn Asn Asp Pro Asn Gln
238              35              40              45
239      Leu Trp Thr Ile Lys Arg Asp Gly Thr Ile Arg Ser Asn Gly Ser Cys
240              50              55              60
241      Leu Thr Thr Tyr Gly Tyr Thr Ala Gly Val Tyr Val Met Ile Phe Asp
242              65              70              75              80
243      Cys Asn Thr Ala Val Arg Glu Ala Thr Leu Trp Gln Ile Trp Gly Asn
244              85              90              95
245      Gly Thr Ile Ile Asn Pro Arg Ser Asn Leu Val Leu Ala Ala Ser Ser
246              100              105              110
247      Gly Ile Lys Gly Thr Thr Leu Thr Val Gln Thr Leu Asp Tyr Thr Leu
248              115              120              125
249      Gly Gln Gly Trp Leu Ala Gly Asn Asp Thr Ala Pro Arg Glu Val Thr

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/11/2003
PATENT APPLICATION: US/09/347,064H TIME: 17:43:34

Input Set : N:\Crf4\09092003\I347064H.raw
Output Set: N:\CRF4\09112003\I347064H.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:16; Line(s) 323
Seq#:18; Line(s) 346
Seq#:33; Line(s) 507
Seq#:34; Line(s) 518
Seq#:39; Line(s) 569
Seq#:40; Line(s) 580
Seq#:41; Line(s) 591

VERIFICATION SUMMARY

DATE: 09/11/2003

PATENT APPLICATION: US/09/347,064H

TIME: 17:43:34

Input Set : N:\Crf4\09092003\I347064H.raw

Output Set: N:\CRF4\09112003\I347064H.raw

L:8 M:270 C: Current Application Number differs, Wrong Format